Litpak 392519
SP-TB-018C
February 2004

New IGBT Power Board Installation Instructions
Spinchron DLX Centrifuge

Use the following harness rework instructions and illustration for new style power board, part number 392503 (230 V) or 392501 (120 V).

1. Remove and discard all four wires (yellow, red, black, blue) that connect the old power board to the bridge rectifier. Remove the bridge rectifier (893532). See Figure 1.
2. Cut the yellow wire from X14 (shrink tubing connects to X14) to bridge rectifier.
3. Cut the shrink tubing and add socket, 20-14 GA (948898) to the yellow wire.
4. Plug this socket into P4, Pin 5, of the main harness.
5. The P4 connector will plug into X4 of the new design DLX power board (Zent 3).
6. Remove the X2 (brake resistor) MATE & LOCK connector from the old board and cut it off. Wrap the exposed wires with insulating tape or use shrink tubing.
7. Remove the FAST-ON connectors from the brake resistor and cut them off. Wrap exposed wires with insulating tape or use shrink tubing. Verify that the modified harness is safely clear of any possible instrument components.
8. Before removing the existing power board, mark all connectors. Remove the power board and the existing cable between X8 and the imbalance switch.
9. Remove the display control board from the front panel.
10. Install the display control board to the new front panel using existing hardware.
11. Install the power board by attaching four blue grommets (item 7) to the holes in the metal plate (item 1 or 2). See Figure 2.
12. Use four spacers (item 8), washers (item 6), and self-locking nuts (item 5) to mount the metal plate/board (item 1 or 2) to the front panel (item 4). See detail A.
13. Install the new front panel using the new X2 (brake resistor) blue wiring harness that is attached to the power board. Install the FAST-ON connectors to the brake resistor legs.
14. Install the new, longer cable (365403) between X8 and the imbalance switch.
15. Verify that all connectors are seated properly.

All other connections remain the same.

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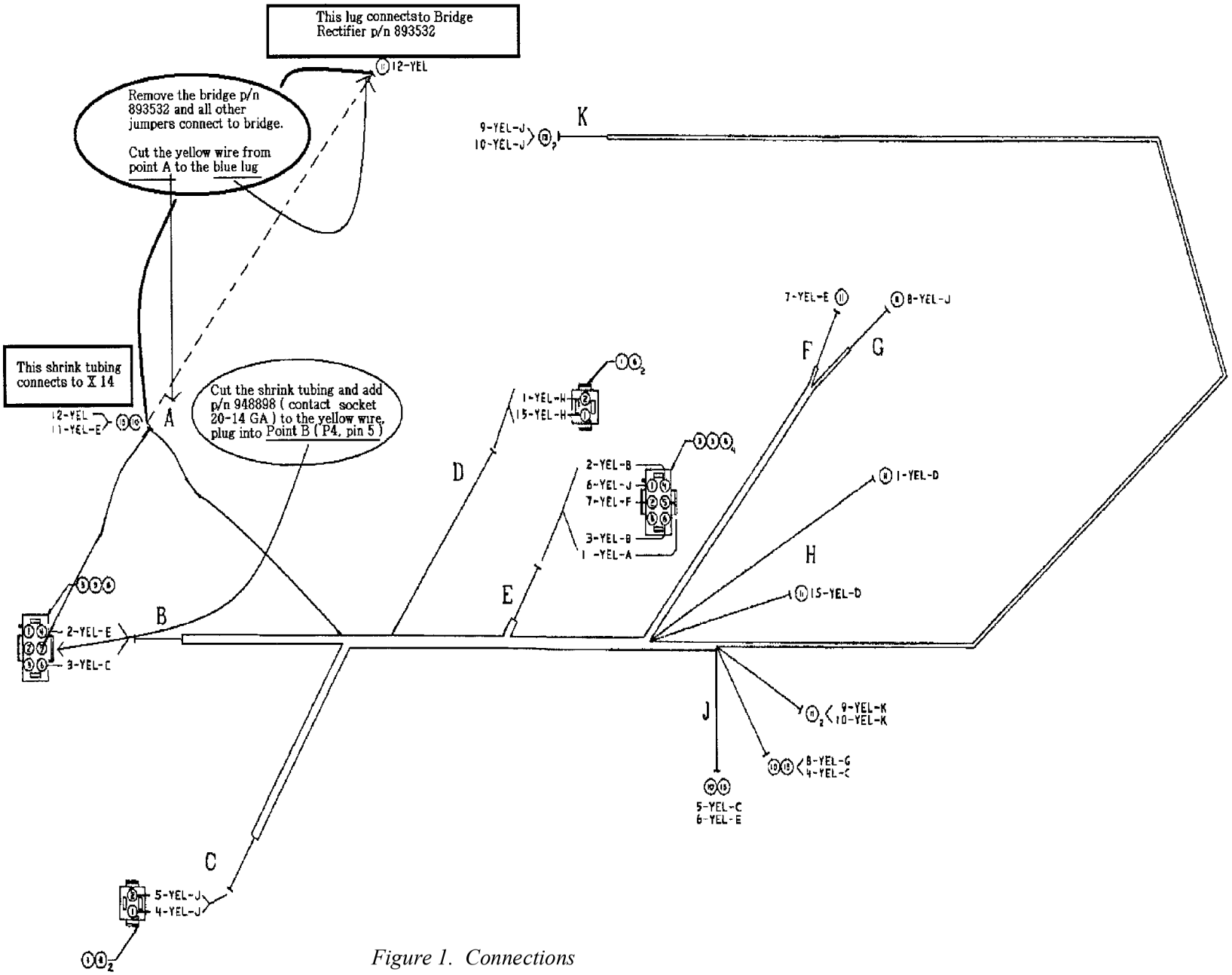
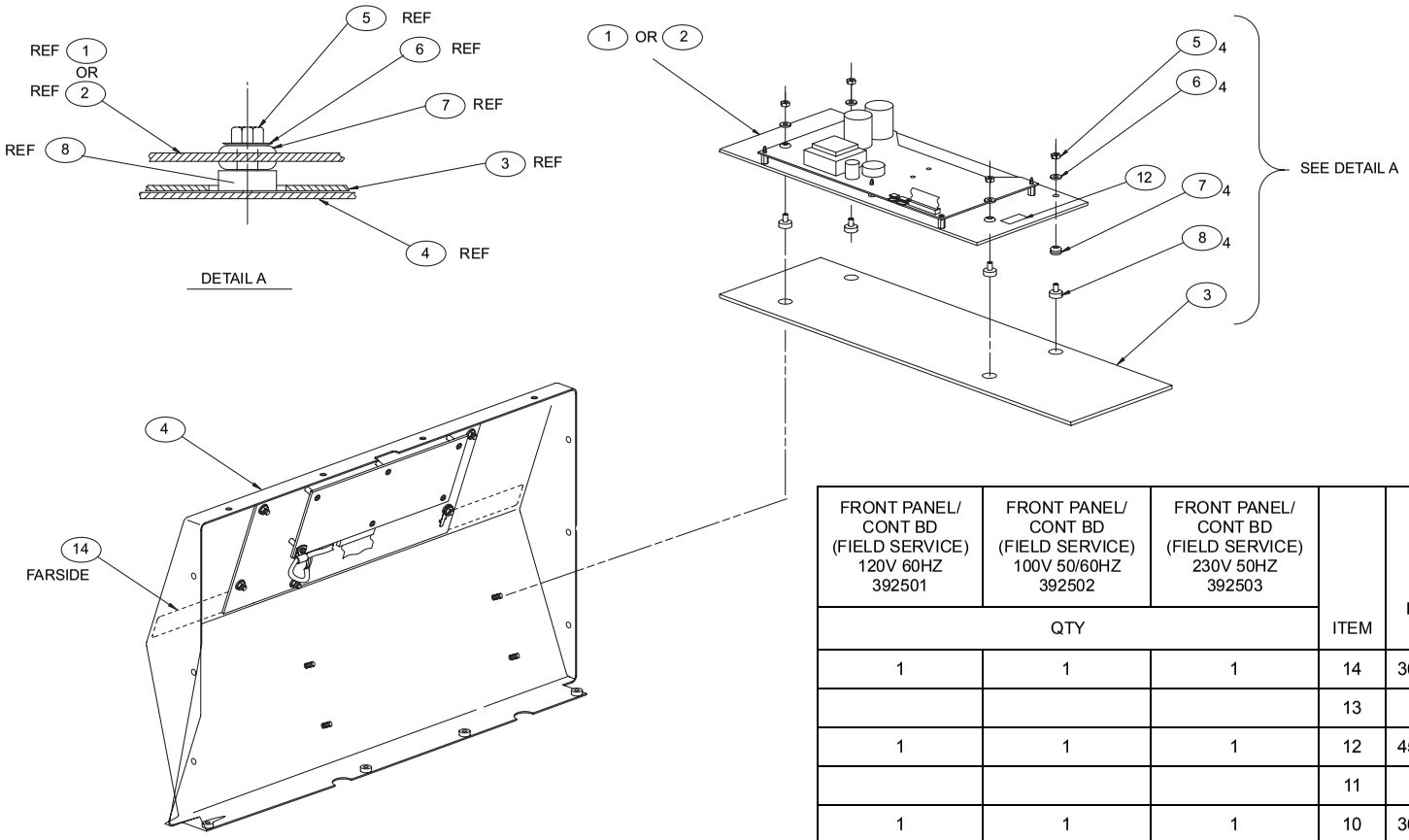


Figure 1. Connections



NOTE ASSEMBLE BOARD (ITEM 1 OR 2) TO PANEL (ITEM 4) PER DETAIL A. TIGHTEN NUT (ITEM 5) UNTIL WASHER (ITEM 6) CONTACTS SPACER (ITEM 8).

Figure 2. Front Panel/Control Board

FRONT PANEL/ CONT BD (FIELD SERVICE) 120V 60HZ 392501	FRONT PANEL/ CONT BD (FIELD SERVICE) 100V 50/60HZ 392502	FRONT PANEL/ CONT BD (FIELD SERVICE) 230V 50HZ 392503	ITEM	PART NO.	DESCRIPTION
QTY					
1	1	1	14	365368	LABEL, NAMESTRIP OVERLAY
			13		
1	1	1	12	456025	LABEL, DANGER
			11		
1	1	1	10	365403	CABLE, IMBALANCE
1	1	1	9	392700	CABLE, BRAKE RESISTOR
4	4	4	8	392036	SPACER
4	4	4	7	978363	GROMMET, DAMPENING
4	4	4	6	878795	WASHER, FLAT NO. 8
4	4	4	5	024688	NUT, 8-32, NYLOK, S-Z1
1	1	1	4	392038	PANEL, FRONT
1	1	1	3	392037	PLATE, DAMPENING PAD
		1	2	392055	BOARD ASSY, POWER 230V
1	1		1	392054	BOARD ASSY, POWER 120V

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